

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original) A method of interpolation for a complementary-color-filtered array image, comprising the steps of:

(a) provide a complementary-color-filtered array of pixel values with yellow pixel values Y_e on a first subarray, cyan pixel values C_y on a second subarray, magenta pixel values M_g on a third subarray, and green pixel values G on a fourth subarray;

(b) interpolating the subarray of yellow pixel values to form a yellow array;

(c) interpolating the subarray of cyan pixel values to form a cyan array;

(d) interpolating the subarray of magenta pixel values to form a magenta array;

(e) interpolating the subarray of green pixel values to form a green array;

(f) adjusting the color values for each pixel by

(i) subtracting a quantity $(Y_e + C_y - 2 \cdot G - M_g)/4$ from Y_e to generate the pixel's adjusted yellow value where Y_e is the pixel's yellow value from step (b), C_y is the pixel's cyan value from step (c), M_g is the pixel's magenta value from step (d), and G is the pixel's green value from step (e);

(ii) subtracting the quantity $(Y_e + C_y - 2 \cdot G - M_g)/4$ from C_y to generate the pixel's adjusted cyan value;

(iii) adding the quantity $(Y_e + C_y - 2 \cdot G - M_g)/4$ to M_g to generate the pixel's adjusted magenta value; and

(iv) adding the quantity $(Y_e + C_y - 2 \cdot G - M_g)/8$ to G to generate the pixel's adjusted green value.